Manual Codes (EPI/S-X): U11-C04D Derwent Registry Numbers: 0245-U; 0270-U; 0306-U; 0323-U; 0325-U; 0335-U; 0366-U; 0367-U; 0377-U; 0804-U; 0862-U; 0879-U; 0904-U; 1066-U; 1713-U; 1740-U; 1881-U 21/9/2 DIALOG(R) File 351: DERWENT WPI (c)1997 Derwent Info Ltd. All rts. reserv. 010876091 WPI Accession No: 96-373042/199638 XRAM Accession No: C96-118423 XRPX Accession No: N96-313866 Method of making photoresist compsn. with reduced solvent waste comprising fractionation of polymeric binder resin(s) with supercritical fluid, and admixture of resin(s) with photoresist cpd(s). Patent Assignee: OCG MICROELECTRONIC MATERIALS INC (OCGM-N) Inventor: JEFFRIES A T; TOUKHY M A Number of Countries: 004 Number of Patents: 002 Patent Family: Week Patent No Kind Date Applicat No Kind Date Main IPC EP 727711 A2 19960821 EP 96300988 A 19960213 G03F-007/004 199638 B JP 8248633 A 19960927 JP 9628793 A 19960216 G03F-007/032 199649 Priority Applications (No Kind Date): US 95390002 A 19950217 Patent Details: Patent Kind Lan Pg Filing Notes Application Patent EP 727711 A2 E 9 Designated States (Regional): DE FR NL JP 8248633 A Abstract (Basic): (EP 727711 A) A method of making a photoresist compsn. comprises: (a) fractionating polymeric binder resin(s) with a supercritical (b) admixing or reacting the fractionated polymeric binder resin with photoresist cpd(s). (P). Cpd. (P) comprises: (i) a photo [sic: photoactive] cpd.; and/or (ii) photo acid generator(s). USE - Compsns. are esp. used in positive-working photoresist for processing of Si wafer or GaAs wafer to form semiconductor devices. ADVANTAGE - Prodn. of solvent waste is reduced or eliminated. Photo acid generators (PAG) increase dissolution rate of photoresist films to make positive-tone photoimage. Pref. supercritical fluid (SCF) is CO2 which is safe, non-toxic, inexpensive and readily commercially available. Dwg.0/0 Title Terms: METHOD; PHOTORESIST; COMPOSITION; REDUCE; SOLVENT; WASTE; COMPRISE; FRACTIONATE; POLYMERISE; BIND; RESIN; SUPERCRITICAL; FLUID; ADMIXED; RESIN; PHOTORESIST; COMPOUND Derwent Class: A21; A89; G06; L03; P84; U11 International Patent Class (Main): G03F-007/004; G03F-007/032 International Patent Class (Additional): C08L-061/06; G03F-007/039; H01L-021/027 File Segment: CPI; EPI; EngPI

Photoresist compositions containing supercritical fluid fractionated polymeric binder resins

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WO9312055; EP0623633; EP0615163; GB2242434; JP62121754

Abstract

A photoresist composition comprising either an admixture or a reaction product of: (a) at least one photosensitive compound selected from the group consisting of a photoactive compound, photo acid generators, and mixtures thereof; and (b) at least one polymeric binder resin fractionated with a supercritical fluid.

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